

Title (en)

Fuel injection nozzles for internal combustion engines.

Title (de)

Kraftstoffeinspritzdüse für Brennkraftmaschinen.

Title (fr)

Buse d'injection de carburant pour moteurs à combustion interne.

Publication

EP 0467680 A1 19920122 (EN)

Application

EP 91306538 A 19910718

Priority

GB 9015979 A 19900720

Abstract (en)

In a fuel injection nozzle for an internal combustion engine a valve member is slidably received within a bore (12) within the wall (4,6,8) of a nozzle body (2). A first bore portion (20) extends from an end face (14) of the nozzle body, in which a cylindrical portion of the valve member is a close sliding fit. A reduced diameter valve member portion extends from the cylindrical valve member portion within a further bore portion (26). The valve member end seats in the closed condition of the nozzle on a valve seat (28) at the end of the further bore portion to prevent access of fuel to spray holes (30) in a nozzle body tip (10). A fuel passage (40) extends from an inlet (38) in the end face (14) of the nozzle body wall and opens into a groove (44) in the wall of the first bore portion (20). The groove is spaced from the end face (14) of the nozzle body and extends along the first bore portion (20) to open into the further bore portion. Maximum cross-sectional area and thus strength of the nozzle body wall (4,6) around the bore are thus achieved, and the length of the first bore portion (20) for guiding the valve member is maximised, while retaining standard external nozzle body dimensions. <IMAGE>

IPC 1-7

F02M 61/16

IPC 8 full level

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CPC (source: EP)

F02M 55/008 (2013.01); **F02M 61/12** (2013.01); **F02M 61/168** (2013.01); **F02M 61/18** (2013.01)

Citation (search report)

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